

RESINTECH IT-1 is an inert bead form resin designed with a bead size and specific gravity in between that of active cation and anion resins. *RESINTECH IT-1* is intended for mixed bed demineralizers where a barrier layer of inert resin is desired surrounding the interface collector after backwash. *IT-1* is supplied in an inert form.

FEATURES & BENEFITS

- TRULY INERT**
Not soluble in acids or bases, has high resistance to oxidation, contains no ion exchange functionality
- HIGH VOID SPACE**
Spherical shape creates a large void space while maintaining excellent separation between the active resin layers
- SUPERIOR PHYSICAL STABILITY**
95% plus sphericity and high crush strengths together with carefully controlled particle distribution provides long life and low pressure drop
- CONTROLLED PARTICLE SIZE**
20 to 40 mesh size provides a low pressure drop and superior kinetics

APPLICATIONS

MIXED BED LAYER

RESINTECH IT-1 is generally used as a mixed bed with a depth of 9 to 12 inches surrounding the interface collector. The beads have no cationic or anionic ion exchange capacity and do not absorb either acid or caustic. Instead they act as a barrier to prevent the chemicals from coming in contact with the opposite resin and causing unwanted absorption of ions. *IT-1* also has a different color than either cation or anion resin and provides a visual indication that the cation and anion resins have separated properly after backwash step.

PHYSICAL PROPERTIES

Polymer Structure	Proprietary Matrix
Polymer Type	Macroporous
Functional Group	None
Physical Form	Spherical beads
Approximate Shipping Weight	44 lbs./cu.ft.
Screen Size Distribution (U.S. mesh)	20 to 40
Maximum Fines Content (<50 mesh)	<1 percent
Minimum Sphericity	95 percent
Uniformity Coefficient	1.2 approx.
Resin Color	White to tan

Note: Physical properties can be certified on a per lot basis, available upon request

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140°F
Minimum bed depth	6 to 9 inches
Operating pH range	0 to 14 SU

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums.

For operation outside these guidelines, contact ResinTech Technical Support

CAUTION: DO NOT MIX ION EXCHANGE RESIN WITH STRONG OXIDIZING AGENTS. Nitric acid and other strong oxidizing agents can cause explosive reactions when mixed with organic materials, such as ion exchange resins.

MATERIAL SAFETY DATA SHEETS (MSDS) are available for all ResinTech Inc. products. To obtain a copy, contact your local ResinTech sales representative or our corporate headquarters. They contain important health and safety information. That information may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used. These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

RESINTECH is a registered trademark © of RESINTECH INC.